PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220
11/2-23016	ACTION	as well	as, where applicable, item 5 below.
International application No.	International filing date (day/mor	th/year)	(Earliest) Priority Date (day/month/year)
PCT/EP2005/050276	24/01/200	5	02/02/2004
Applicant	<u> </u>		
CIBA SPECIALTY CHEMICALS	HOLDING INC.		
This International Search Report has bee according to Article 18. A copy is being tr	n prepared by this International Sea	rching Auth	ority and is transmitted to the applicant
This International Search Report consists	of a total of shall be a copy of each prior art document		roned
it is also accompanied by	a copy of each phor an document	itea in this	report.
1. Basis of the report			
 a. With regard to the language, the language in which it was filed, unline 	international search was carried ou less otherwise indicated under this	t on the bas tem.	is of the international application in the
The international	search was carried out on the basis	of a transla	ation of the international application furnished to
this Authority (Ru	· <i>"</i>	د مانمماند د د ۱	to the later and a self-self-self-self-self-self-self-self-
b. With regard to any nucleo	oude and/or amino acid sequenc	alsclosed i	in the international application, see Box No. I.
2. Certain claims were fou	nd unsearchable (See Box II).		
3. X Unity of invention is lac	kina (see Roy III)		
	king (see box in).		
4. With regard to the title,			
X the text is approved as su	• ••		
the text has been establis	hed by this Authority to read as follo	ws:	
5. With regard to the abstract,			
X the text is approved as su	• ••		
the text has been establish may, within one month fro	hed, according to Rule 38.2(b), by t m the date of mailing of this interna	nis Authority ional searcl	v as it appears in Box No. IV. The applicant h report, submit comments to this Authority.
6. With regard to the drawings,			
a. the figure of the drawings to be p	ublished with the abstract is Figure	No	
as suggested by the	• •		
	Authority, because the applicant for		-
	Authority, because this figure bett	er characteri	izes the invention.
	published with the abstract.		

Form PCT/ISA/210 (first sheet) (January 2004)

International Application No. PCT/ EP2005/050276

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1(part)-6(part)

photoinitiator represented by formula I wherein n is 1 / composition comprising said photoinitiator / use of said photoinitiator to cure the composition

2. claims: 1 (part), 5(part), 6(part)

photoinitiator represented by formula I wherein \underline{n} is 2, and R2 is a direct bond / composition comprising said photoinitiator / use of said photoinitiator to cure the composition

3. claims: 1(part)-6(part)

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photoinitiator represented by formula I wherein n is 2, and R2 is a C2-C16-alkylene / composition comprising said photoinitiator / use of said photoinitiator to cure the composition

4. claims: 1 (part), 5(part), 6(part)

photoinitiator represented by formula I wherein n is 2, and R2 is a cyclohexylene / composition comprising said photoinitiator / use of said photoinitiator to cure the composition

5. claims: 1 (part), 5(part), 6(part)

photoinitiator represented by formula I wherein n is 2, and R2 is a xylylene / composition comprising said photoinitiator / use of said photoinitiator to cure the composition

6. claims: 1 (part), 5(part), 6(part)

photoinitiator represented by formula I wherein n is 2, and R2 is a dihydroxyxylylene / composition comprising said photoinitiator / use of said photoinitiator to cure the composition

7. claims: 1 (part), 5(part), 6(part)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

photoinitiator represented by formula I wherein n is 2, and R2 is a C4-C8-alkenediyl / composition comprising said photoinitiator / use of said photoinitiator to cure the composition

8. claims: 1(part), 5(part), 6(part)

photoinitiator represented by formula I wherein n is 2, and R2 is a C6-C10-alkadienediyl / composition comprising said photoinitiator / use of said photoinitiator to cure the composition

9. claims: 1(part), 5(part), 6(part)

photoinitiator represented by formula I wherein n is 2, and R2 is a dipentenedial / composition comprising said photoinitiator / use of said photoinitiator to cure the composition $\frac{1}{2}$

10. claim: 7

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use of compounds of formula I to prepare multifunctional photoinitiators

International application No. PCT/EP2005/050276

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: 1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims. .
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: See annex
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2005/050276

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A. CLASSI IPC 7	FICATION OF SUBJECT MATTER G03F7/031 C08F2/50						
According to	o International Patent Classification (IPC) or to both national classific	eation and IPC					
	SEARCHED - poumentation searched (classification system followed by classification)	in a second of the second of t	· · · · · · · · · · · · · · · · · · ·				
IPC 7	G03F C08F	ion symbols)					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic d	ata base consulted during the international search (name of data ba	ise and, where practical, search terms used)					
EPO-In	ternal, WPI Data, PAJ						
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the rel	levant passages	Relevant to claim No.				
х	US 4 992 547 A (G. BERNER ET AL. 12 February 1991 (1991-02-12) cited in the application page 13, line 23 - line 24 claim 1)	1-6				
А	EP 1 357 117 A (C. C. CHIU ET AL 29 October 2003 (2003-10-29) cited in the application * page 12, compound 4 * * page 13, compound 369N *)	1-6				
Furth	ner documents are listed in the continuation of box C.	X Patent family members are listed in	n annex.				
"A" docume consid "E" earlier difiling d. "L" docume which i citation "O" docume other n	nt which may throw doubts on priority claim(s) or is cited to establish the publication date of another or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or neans on the published prior to the international filing date but	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.					
	an the priority date claimed	"8" document member of the same patent for					
	actual completion of the international search June 2005	Date of mailing of the international search	·				
			0. 2005				
Name and m	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Dupart, JM.					

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Information on patent family members

International Application No
PCT/EP2005/050276

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4992547 A 12-02-199	12-02-1991	CA	1226287 A1	01-09-1987	
			DE	3471486 D1	30-06-1988
			EP	0138754 A2	24-04-1985
•			JP	2518592 B2	24-07-1996
			JР	7070220 A	14-03-1995
			JР	1948707 C	10-07-1995
			JР	6070090 B	07-09-1994
			JP	60084248 A	13-05-1985
EP 1357117 A	A	29-10-2003	US	2003225179 A1	04-12-2003
			US	2004068110 A1	08-04-2004

Form PCT/ISA/210 (patent family annex) (January 2004)